ABSTRACT OF THE DISCLOSURE

A detected signal 111 contains a preamble portion which includes symbol alternations, followed by a unique word portion, and a data portion. Each time a symbol alternation is detected,

5   a correction value calculation section 102 averages the phase shift in the detected signal 111 for a predetermined length, thereby calculating a correction value 115. The correction value determination section 103 stores a plurality of correction values 115 in a chronological order. When the unique word portion is

10   detected, the correction value determination section 103 retains, as an effective correction value 118, a correction value which is arrived at by going back a predetermined number of correction values among the stored correction values. A phase rotation section 104 corrects the phase of the detected signal 111 by using

15   an effective correction value 118 calculated by the correction value determination section 103.